CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AM/W.No.07/CSR-04/326e/CEMENT/2017-18 Date: 21.04.2017

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Kodigeahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. A. Manjunatha,** Contractor, Bangalore.
*NAME OF THE WORK	:	Improvements of Roads and Drains in Amruthahalli S.C. Colony 1st to 3rd cross in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/77/2016-17 Dated: 03.08.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	20.04.2017
PERIOD OF TESTING	:	20.04.2017 to 21.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CTCE/BBMP/AM/W.No.07/CSR-04/326e/SAND-Gradation/2017-18 : 21.04.2017

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : **Asst. Executive Engineer,** Kodigeahalli Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. A. Manjunatha,** Contractor, Bangalore.

* **Name of Work** : Improvements of Roads and Drains in Amruthahalli S.C. Colony 1st to 3rd cross in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/77/2016-17 Dated: 03.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 20.04.2017

Date of Testing : 21.04.2017

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.70	90-100	90-100	90-100	95-100
2.36	76.30	60-95	75-100	85-100	95-100
1.18	53.80	30-70	55-90	75-100	90-100
600 Micron	27.50	15-34	35-59	60-79	80-100
300 Micron	11.70	5-20	8-30	12-40	15-50
150 Micron	6.20	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/AM/W.No.07/CSR-04/326e//AGG/GR/2017-18 : 21.04.2017

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Kodigeahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. A. Manjunatha,** Contractor, Bangalore.
* Name of Work	: Improvements of Roads and Drains in Amruthahalli S.C. Colony 1st to 3rd cross in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/77/2016-17 Dated: 03.08.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 20.04.2017
Date of Testing	: 21.04.2017

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.30	95-100	85-100
20	35.70	30-70	0-20
10	12.60	10-35	0-5
4.75	2.80	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/AM/W.No.07/STEEL/2017-18 21.04.2017

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Kodigeahalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. A. Manjunatha,** Contractor, Bangalore.
Name of the Work	:	Improvements of Roads and Drains in Amruthahalli S.C. Colony 1st to 3rd cross in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/77/2016-17 Dated: 03.08.2016
Date of Test	:	21.04.2017
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

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Job No.: CTCE/BBMP/AM/W.No.07/CSR-04/326e//CUBE/2017-18 24.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Kodigeahalli Sub Division, BBMP, Bangalore.
*Agency	: **Mr. A. Manjunatha,** Contractor, Bangalore.
*Name of the work	: Improvements of Roads and Drains in Amruthahalli S.C. Colony 1st to 3rd cross in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/77/2016-17 Dated: 03.08.2016
*Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 24.06.2017

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2017	24.06.2017	8.265	497.2	22.10
2	27.05.2017	24.06.2017	8.184	484.7	21.54
3	27.05.2017	24.06.2017	8.367	511.6	22.74

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